

Notice of Allowability

Application No.

10/074,050

Examiner

DUNG A LE

Applicant(s)

YAMAZAKI ET AL.

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-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/3/04.
2. ☒ The allowed claim(s) is/are 107-179.
3. ☒ The drawings filed on 4/14/02 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892) | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>02/14/02</u> | 6 <input type="checkbox"/> Examiner's Amendment/Comment |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material <u>03/3/04</u> | 8 <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

DUNG LE
PRIMARY EXAMINER

DETAILED ACTION

Reason for allowance

Claims 107- 179 are allowed. The following is an examiner's statement of reason for allowance:

Set of claims 107- 125, none of the references of record teaches or suggests the claimed Method of manufacturing a semiconductor having the step(s) of forming a third semiconductor film containing one conductive type impurity element on the second semiconductor film, reducing a concentration of the metal element in the first crystalline semiconductor film by allowing the third semiconductor film to getter the metal element and among other steps/limitations as claimed in independent claim 107.

Set of claims 126- 141, none of the references of record teaches or suggests the claimed Method of manufacturing a semiconductor having the step(s) of adding one conductive types impurity element to only an upper layer of the second semiconductor film, reducing a concentration of the metal element in the first crystalline semiconductor film by allowing the upper layer of the second semiconductor film to getter the metal element and among other steps/limitations as claimed in independent claim 126.

Set of claims 142- 160, none of the references of record teaches or suggests the claimed Method of manufacturing a semiconductor having the step(s) of forming a third

semiconductor film containing one conductive type impurity element on the second semiconductor film, reducing a concentration of the crystallization promoting material in the first crystalline semiconductor film by using the third semiconductor film and among other steps/limitations as claimed in independent claim 142.

Set of claims 161- 179, none of the references of record teaches or suggests the claimed Method of manufacturing a semiconductor having the step(s) of forming a third semiconductor film containing one conductive type impurity element on the second semiconductor film, reducing a concentration of the crystallization promoting material in the first crystalline semiconductor film by gettering the crystallization promoting material into the third crystalline semiconductor film and among other steps/limitations as claimed in independent claim 161.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung A. Le whose telephone number is (571) 272-1784. The examiner can normally be reached on Monday-Friday 8:00am-5:30pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Dung A. Le

P. Examiner.

A handwritten signature in black ink, appearing to be 'Dle', written over the printed name 'Dung A. Le'.